From: Dennis Carney/R3/USEPA/US

Sent: 6/12/2012 12:38:34 PM

To: Dana Tulis/DC/USEPA/US@EPA

CC: Gilberto Irizarry/DC/USEPA/US@EPA; Ron Borsellino/R3/USEPA/US@EPA

Subject: Re: Mangnese data

Dana, here's some information regarding manganese that I am consolidating in this one note from various sources.

a) For the well considering all available data, including PADEP, homeowner, Cabot and EPA (thru the 1st round) we have:

Min: 21 ug/l Max: 413 ug/l Avg: 121 ug/l

1st EPA sample - 64 ug/l 2nd EPA sample - 942 ug/l

b) For the entire EPA data set that is FINAL (61 homes) (thru 1st round) here are some statistics. The information below is on the detected Manganese data from EPA sampling only. Non-detects were not included in this data set calculation. Average would be higher with non-detects included.

Min: 1 ug/l Max: 947 ug/l Avg: 76 ug/l

c) Background studies on the groundwater of the Catskill formation from which it is believed most residents draw their well water are limited to neighboring counties of Tioga, Bradford and Potter [There is no usable data for Susquehanna Co where Dimock is actually located]. Data from available background shows:

Min: 1 ug/l Max: 1,000 ug/l Median: 30 ug/l

10th percentile value = 180 ug/l [this is the value which 10% of wells equaled or exceeded]

A further look at the EPA data yields the following:

Round 1 (59 wells sampled) (for 61 residences)

- Manganese was detected (above reporting limit of 1 ug/L) in a total of 50 wells
- Manganese was detected above concentration of 50 ug/L (secondary MCL) in a total of 19 wells; of those 19, 2 wells had levels above 320 ug/L (Trigger level)

Round 2 (4 wells sampled)

- Manganese was detected (above reporting limit of 1 ug/L) in all 4 wells
- Manganese was detected above concentration of 50 $\,$ ug/L (secondary MCL) in 2 of the wells ; of those 2, 1 well had a level above 320 $\,$ ug/L

Ex. 5 - Deliberative

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Any questions, just let me know. Thanks, dennis.

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From: Dana Tulis/DC/USEPA/US

To: Ron Borsellino/R3/USEPA/US@EPA, Dennis Carney/R3/USEPA/US@EPA, Gilberto Irizarry/DC/USEPA/US@EPA
Date: 06/12/2012 09:18 AM
Subject: Mangnese data

Did you all find more background data?

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